

**Presentation:**Gazette **Image:**Small 

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[View Images](#)**(21) Int. Application Number:** PCT/US99/11825**(22) Int. Filing Date:** 27 May 1999  
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**(60) Parent Application or Grant****(63)** Related by  
Continuation

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(28.05.1998)**(71) Applicant:****ST. JUDE CHILDREN'S RESEARCH  
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07601; (US).**(81) Designated States:**AE, AL, AM, AT, AU, AZ, BA, BB, BG,  
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LR, LS, LT, LU, LV, MD, MG, MK, MN,  
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**(11) Int.  
Publication W  
Number:****(43) Int.  
Publication  
Date:****(54) Title:** EXPANSION OF HEMATOPOIETIC  
CELLS TRANSDUCE WITH MDR  
METHODS OF USE THEREOF

No Image Available.

**(57) Abstract**

The present invention includes methods of vivo expansion of gene-modified hematopoie which are useful for many applications involvin transplantation and ex vivo gene therapy. The pr further includes the gene-modified hematopoi that are used and produced by such m gene-modified hematopoietic stem cells can second heterologous gene. In addition, the pr also includes methods of engrafting the hematopioietic stem cells of the present inventio including for ex vivo gene therapy and for re hematopioietic cells in ablated mammals.

patent ( AT, BE, CH, CY, DE, DK, ES, FI,  
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE );  
OAPI patent ( BF, BJ, CF, CG, CI, CM, GA,  
GN, GW, ML, MR, NE, SN, TD, TG )

**Presentation:**

Gazette

**Image:**

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